

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/530,539A  
Source: IFWP  
Date Processed by STIC: 8/4/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 08/04/2006

PATENT APPLICATION: US/10/530,539A

TIME: 13:09:41

Input Set : A:\HER0071SEQ2.TXT

Output Set: N:\CRF4\08042006\J530539A.raw

3 <110> APPLICANT: FRANCE HYBRIDES

W--> 4 <120> TITLE OF INVENTION: Process for producing a mammal rendered resistant to an infection by an alphaherpesvirus by germinal transgenesis and mammal obtained by the employment of this process.

W--> 5

W--> 6

W--> 7 <130> FILE REFERENCE: hvec

C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/530,539A

C--> 8 <141> CURRENT FILING DATE: 2005-04-06

8 <150> PRIOR APPLICATION NUMBER: Fr02 12775

9 <151> PRIOR FILING DATE: 2002-10-15

W--> 10 <160> NUMBER OF SEQ ID: 4

11 <170> SOFTWARE: PatentIn version 3.1

W--> 12 <210> SEQ ID NO: 1

13 <211> LENGTH: 440

14 <212> TYPE: PRT

15 <213> ORGANISM: artificial sequence

W--> 16 <220> FEATURE:

17 <223> OTHER INFORMATION: Artificial protein fusing the extracellular domain of the protein HveM of the mouse and the crystallisable fragment of the human immunoglobulin G1

W--> 20 <400> SEQUENCE: 1

21	Met	Glu	Pro	Leu	Pro	Gly	Trp	Gly	Ser	Ala	Pro	Trp	Ser	Gln	Ala	Pro
22	1				5					10					15	
23	Thr	Asp	Asn	Thr	Phe	Arg	Leu	Val	Pro	Cys	Val	Phe	Leu	Leu	Asn	Leu
24				20					25					30		
25	Leu	Gln	Arg	Ile	Ser	Ala	Gln	Pro	Ser	Cys	Arg	Gln	Glu	Glu	Phe	Leu
26			35					40					45			
27	Val	Gly	Asp	Glu	Cys	Cys	Pro	Met	Cys	Asn	Pro	Gly	Tyr	His	Val	Lys
28		50					55					60				
29	Gln	Val	Cys	Ser	Glu	His	Thr	Gly	Thr	Val	Cys	Ala	Pro	Cys	Pro	Pro
30	65					70					75				80	
31	Gln	Thr	Tyr	Thr	Ala	His	Ala	Asn	Gly	Leu	Ser	Lys	Cys	Leu	Pro	Cys
32					85					90					95	
33	Gly	Val	Cys	Asp	Pro	Asp	Met	Gly	Leu	Leu	Thr	Trp	Gln	Glu	Cys	Ser
34				100					105					110		
35	Ser	Trp	Lys	Asp	Thr	Val	Cys	Arg	Cys	Ile	Pro	Gly	Tyr	Phe	Cys	Glu
36			115					120					125			
37	Asn	Gln	Asp	Gly	Ser	His	Cys	Ser	Thr	Cys	Leu	Gln	His	Thr	Thr	Cys
38		130					135					140				
39	Pro	Pro	Gly	Gln	Arg	Val	Glu	Lys	Arg	Gly	Thr	His	Asp	Gln	Asp	Thr
40	145					150					155					160
41	Val	Cys	Ala	Asp	Cys	Leu	Thr	Gly	Thr	Phe	Ser	Leu	Gly	Gly	Thr	Gln
42				165						170					175	

43 Glu Glu Cys Leu Pro Trp Thr Asn Cys Ser Ala Phe Gln Gln Glu Val

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44          180          185          190
45 Arg Arg Gly Thr Asn Ser Thr Asp Thr Thr Cys Ser Ser Asp Pro Glu
46          195          200          205
47 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
48          210          215          220
49 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
50 225          230          235          240
51 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
52          245          250          255
53 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
54          260          265          270
55 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
56          275          280          285
57 Tyr Asn Ser Thr Tyr Arg Val Ser Val Leu Thr Val Leu His Gln
58          290          295          300
59 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
60 305          310          315          320
61 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
62          325          330          335
63 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
64          340          345          350
65 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
66          355          360          365
67 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
68          370          375          380
69 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
70 385          390          395          400
71 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
72          405          410          415
73 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
74          420          425          430
75 Ser Leu Ser Leu Ser Pro Gly Lys
76          435          440

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78 &lt;210&gt; SEQ ID NO: 2

79 &lt;211&gt; LENGTH: 581

80 &lt;212&gt; TYPE: PRT

81 &lt;213&gt; ORGANISM: artificial sequence

83 &lt;220&gt; FEATURE:

84 <223> OTHER INFORMATION: Artificial protein fusing the extracellular domain  
85 (domains V-C-C) of the protein HveC of the pig and the  
86 crystallisable fragment of the human immunoglobulin G1

W--&gt; 87 &lt;400&gt; SEQUENCE: 2

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90 Met Ala Arg Met Gly Leu Ala Gly Ala Ala Gly Arg Trp Trp Gly Leu
91 1          5          10          15
92 Ala Leu Gly Leu Thr Ala Phe Phe Leu Pro Gly Ala His Thr Gln Val
93          20          25          30
94 Val Gln Val Asn Asp Ser Met Tyr Gly Phe Ile Gly Thr Asp Val Val
95          35          40          45
96 Leu His Cys Ser Phe Ala Asn Pro Leu Pro Gly Val Lys Ile Thr Gln

```

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97      50      55      60
98 Val Thr Trp Gln Lys Ala Thr Asn Gly Ser Lys Gln Asn Val Ala Ile
99 65      70      75      80
100 Tyr Asn Pro Ala Met Gly Val Ser Val Leu Ala Pro Tyr Arg Glu Arg
101      85      90      95
102 Val Glu Phe Leu Arg Pro Ser Phe Thr Asp Gly Thr Ile Arg Leu Ser
103      100      105      110
104 Arg Leu Glu Leu Glu Asp Glu Gly Val Tyr Ile Cys Glu Phe Ala Thr
105      115      120      125
106 Phe Pro Ala Gly Asn Arg Glu Ser Gln Leu Asn Leu Thr Val Met Ala
107      130      135      140
108 Lys Pro Thr Asn Trp Ile Glu Gly Thr Gln Ala Val Leu Arg Ala Lys
109 145      150      155      160
110 Lys Gly Lys Asp Asp Lys Val Leu Val Ala Thr Cys Thr Ser Ala Asn
111      165      170      175
112 Gly Lys Pro Pro Ser Val Val Ser Trp Glu Thr His Leu Lys Gly Glu
113      180      185      190
114 Ala Glu Tyr Gln Glu Ile Arg Asn Pro Asn Gly Thr Val Thr Val Ile
115      195      200      205
116 Ser Arg Tyr Arg Leu Val Pro Ser Arg Glu Asp His Arg Gln Ser Leu
117      210      215      220
118 Ala Cys Ile Val Asn Tyr His Met Asp Arg Phe Arg Glu Ser Leu Thr
119 225      230      235      240
120 Leu Asn Val Gln Tyr Glu Pro Glu Val Thr Ile Glu Gly Phe Asp Gly
121      245      250      255
122 Asn Trp Tyr Leu Gln Arg Met Asp Val Lys Leu Thr Cys Lys Ala Asp
123      260      265      270
124 Ala Asn Pro Pro Ala Thr Glu Tyr His Trp Thr Thr Leu Asn Gly Ser
125      275      280      285
126 Leu Pro Lys Gly Val Glu Ala Gln Asn Arg Thr Leu Phe Phe Arg Gly
127      290      295      300
128 Pro Ile Asn Tyr Ser Met Ala Gly Thr Tyr Ile Cys Glu Ala Thr Asn
129 305      310      315      320
130 Pro Ile Gly Thr Arg Ser Gly Gln Val Glu Val Asn Ile Thr Glu Phe
131      325      330      335
132 Pro Tyr Thr Pro Ser Pro Pro Glu His Ala Asp Pro Glu Glu Pro Lys
133      340      345      350
134 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
135      355      360      365
136 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
137      370      375      380
138 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
139 385      390      395      400
140 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
141      405      410      415
142 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
143      420      425      430
144 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
145      435      440      445

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146 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
147      450                      455                      460
148 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
149 465                      470                      475                      480
150 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
151                      485                      490                      495
152 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
153                      500                      505                      510
154 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
155                      515                      520                      525
156 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
157 530                      535                      540
158 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
159 545                      550                      555                      560
160 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
161                      565                      570                      575
162 Leu Ser Pro Gly Lys
163      580

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165 &lt;210&gt; SEQ ID NO: 3

166 &lt;211&gt; LENGTH: 376

167 &lt;212&gt; TYPE: PRT

168 &lt;213&gt; ORGANISM: artificial sequence

170 &lt;220&gt; FEATURE:

172 <223> OTHER INFORMATION: Artificial protein fusing the V domain of the protein

173 HveC of the pig and the crystallisable fragment of the

174 porcine immunoglobulin G1

W--&gt; 175 &lt;400&gt; SEQUENCE: 3

```

178 Met Ala Arg Met Gly Leu Ala Gly Ala Ala Gly Arg Trp Trp Gly Leu
179 1      5      10      15
180 Ala Leu Gly Leu Thr Ala Phe Phe Leu Pro Gly Ala His Thr Gln Val
181      20      25      30
182 Val Gln Val Asn Asp Ser Met Tyr Gly Phe Ile Gly Thr Asp Val Val
183      35      40      45
184 Leu His Cys Ser Phe Ala Asn Pro Leu Pro Gly Val Lys Ile Thr Gln
185      50      55      60
186 Val Thr Trp Gln Lys Ala Thr Asn Gly Ser Lys Gln Asn Val Ala Ile
187 65      70      75      80
188 Tyr Asn Pro Ala Met Gly Val Ser Val Leu Ala Pro Tyr Arg Glu Arg
189      85      90      95
190 Val Glu Phe Leu Arg Pro Ser Phe Thr Asp Gly Thr Ile Arg Leu Ser
191      100     105     110
192 Arg Leu Glu Leu Glu Asp Glu Gly Val Tyr Ile Cys Glu Phe Ala Thr
193      115     120     125
194 Phe Pro Ala Gly Asn Arg Glu Ser Gln Leu Asn Leu Thr Val Met Gly
195      130     135     140
196 Ser Val Gly Ile His Gln Pro Gln Thr Cys Pro Ile Cys Pro Gly Cys
197 145     150     155     160
198 Glu Val Ala Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Pro Lys Asp
199      165     170     175

```

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TIME: 13:09:41

Input Set : A:\HER0071SEQ2.TXT

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```

200 Thr Leu Met Ile Ser Gln Thr Pro Glu Val Thr Cys Val Val Val Asp
201                180                185                190
202 Val Ser Lys Glu His Ala Glu Val Gln Phe Ser Trp Tyr Val Asp Gly
203                195                200                205
204 Val Glu Val His Thr Ala Glu Thr Arg Pro Lys Glu Glu Gln Phe Asn
205                210                215                220
206 Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Gln His Gln Asp Trp
207 225                230                235                240
208 Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Val Asp Leu Pro
209                245                250                255
210 Ala Pro Ile Thr Arg Thr Ile Ser Lys Ala Ile Gly Gln Ser Arg Glu
211                260                265                270
212 Pro Gln Val Tyr Thr Leu Pro Pro Ala Glu Glu Leu Ser Arg Ser
213                275                280                285
214 Lys Val Thr Leu Thr Cys Leu Val Ile Gly Phe Tyr Pro Pro Asp Ile
215                290                295                300
216 His Val Glu Trp Lys Ser Asn Gly Gln Pro Glu Pro Glu Asn Thr Tyr
217 305                310                315                320
218 Arg Thr Thr Pro Pro Gln Gln Asp Val Asp Gly Thr Phe Phe Leu Tyr
219                325                330                335
220 Ser Lys Leu Ala Val Asp Lys Ala Arg Trp Asp His Gly Asp Lys Phe
221                340                345                350
222 Glu Cys Ala Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
223                355                360                365
224 Ser Ile Ser Lys Thr Gln Gly Lys
225                370                375

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227 &lt;210&gt; SEQ ID NO: 4

228 &lt;211&gt; LENGTH: 578

229 &lt;212&gt; TYPE: PRT

230 &lt;213&gt; ORGANISM: artificial sequence

232 &lt;220&gt; FEATURE:

233 &lt;223&gt; OTHER INFORMATION: Artificial protein fusing the extracellular domain

234 (domains V-C-C) of the protein HveC of the pig and the

235 crystallisable fragment of the porcine immunoglobulin G1

W--&gt; 236 &lt;400&gt; SEQUENCE: 4

```

239 Met Ala Arg Met Gly Leu Ala Gly Ala Ala Gly Arg Trp Trp Gly Leu
240 1      5      10      15
241 Ala Leu Gly Leu Thr Ala Phe Phe Leu Pro Gly Ala His Thr Gln Val
242                20      25      30
243 Val Gln Val Asn Asp Ser Met Tyr Gly Phe Ile Gly Thr Asp Val Val
244                35      40      45
245 Leu His Cys Ser Phe Ala Asn Pro Leu Pro Gly Val Lys Ile Thr Gln
246                50      55      60
247 Val Thr Trp Gln Lys Ala Thr Asn Gly Ser Lys Gln Asn Val Ala Ile
248 65      70      75      80
249 Tyr Asn Pro Ala Met Gly Val Ser Val Leu Ala Pro Tyr Arg Glu Arg
250                85      90      95
251 Val Glu Phe Leu Arg Pro Ser Phe Thr Asp Gly Thr Ile Arg Leu Ser
252                100     105     110

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## VERIFICATION SUMMARY

DATE: 08/04/2006

PATENT APPLICATION: US/10/530,539A

TIME: 13:09:42

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Output Set: N:\CRF4\08042006\J530539A.raw

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L:7 M:283 W: Missing Blank Line separator, <130> field identifier  
L:8 M:270 C: Current Application Number differs, Replaced Current Application No  
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:10 M:283 W: Missing Blank Line separator, <160> field identifier  
L:12 M:283 W: Missing Blank Line separator, <210> field identifier  
L:16 M:283 W: Missing Blank Line separator, <220> field identifier  
L:20 M:283 W: Missing Blank Line separator, <400> field identifier  
L:87 M:283 W: Missing Blank Line separator, <400> field identifier  
L:175 M:283 W: Missing Blank Line separator, <400> field identifier  
L:236 M:283 W: Missing Blank Line separator, <400> field identifier